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Fall 2004

CS 241: Computer Science II

L. Jane Lin

Wright State University - Main Campus

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CS 241 –Computer Science II (Fall 2004)

105 Biological Sciences Building, Tuesdays and Thursdays 10:25-11:40am

Instructor: Dr. L. Jane Lin, 160 Russ Engineering Center
(off the study area inside 158 Russ Engineering Center)

Email: jane.lin@wright.edu

URL: <http://www.wright.edu/~jane.lin>

Office Hours: T R 11:40am - 12:40pm and by appointment

Textbook: T. Gaddis, J. Walters & G. Muganda, Alternate version of Starting Out With C++ (4th ed.)
Scott Jones, 2004.

Disks: at least two formatted 3.5" High Density Diskettes

Software: Microsoft Visual C++ 6.0 Compiler (available in the library)

Course Description:

This course is the second in the three course sequence "Introduction to Computer Science" offered by the Computer Science department, WSU. It focuses on tools for building **abstract data types** (using **structure** and **class** concepts in C++) and Object-Oriented Programming. We also begin the study of data structures in this course. ***For All CS 241 students, concurrent registration into CS 241 lab is a must.***

Prerequisites: CS 240, MTH 130, MTH 131.

Grading Policy: Final grades will be determined as follows.

4 Programming Assignments	-----	30%
8 Lab Exercises	-----	20%
3 Examinations	-----	30%
1 Final Examination	-----	20%

Grading Scale: The final grade is assigned as follows.

90-100	-----	A
80-below 90	-----	B
70-below 80	-----	C
60-below 70	-----	D
Below 60	-----	F

General Class Policy

It is strongly advised that students attend all lectures and lab sessions. In the event of absence, **a student is responsible for material covered in lecture/lab, and making up all missed work in the timeliest manner.** There is a **lab section** for this course and labs are handled by lab teachers who will guide and check eight laboratory assignments. **Programming projects** are due at the beginning of the class on the date they are due. No late submissions are accepted. Always submit your work since partial credit is available. **Quizzes and examinations** will be given on the dates specified on the class schedule. If a student misses a quiz/test, that quiz/test has 0 score automatically.

Class Schedule (→ over)

CS 241 Course Schedule (Fall 2004)

Date	Class Topics and quiz/exam dates	Chapters
9-7 9-9 9-14 9-16	Orient Programming, OOP (classes, constructors, destructors, members)	Chapter 7
9-21 9-23 9-28	Advanced Class Concepts and Constructs (friends, copy constructors and operator overloading Last day to drop without a Grade: September 27, Monday	Chapter 11
9-30	Examination 1 (Covers Chapters 7, 11)	
10-5 10-7 10-12	Arrays, C Strings and C++ Strings (arrays of strings, structures and objects) Basic Sorting and Searching (linear and binary search, simple sorting techniques)	Chapters 8 & 12 chapter 9
10-14	Examination 2 (Covers Chapters 8, 9, 12)	
10-19 10-21 10-26	Pointers, Dynamic Memory Allocation and ADT List (self-referencing structures) Last day to drop with W Grade: Oct 25, Monday	chapters 10 & 16
10-28	Examination 3 (Covers Ch. 10, 16)	
11-2 11-4 11-9 11-11	Inheritance, Polymorphism and Virtual Functions University closed: Veteran's Day	chapter 15
11-18	Final Exam (10:45am-12:45pm)	

Note: The instructor reserves the right to make changes to the tentative class schedule.